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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/621,484	07/16/2003	Stan E. Leigh	200312110-1 2585	
7590 09/15/2004 HEWLETT-PACKARD DEVELOPMENT COMPANY			EXAMINER	
			VORTMAN, ANATOLY	
Intellectual Pro	perty Administration			
P.O. Box 272400 Fort Collins, CO 80527-2400			ART UNIT	PAPER NUMBER
			2835	

DATE MAILED: 09/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/621,484	LEIGH ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Anatoly Vortman	2835			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHO THE I - Exter after - If the - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a repressive to reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).		timely filed ays will be considered timely. m the mailing date of this communication. NED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 16.	<i>July 2003</i> .				
2a) <u></u> ☐	This action is FINAL . 2b)⊠ Thi	s action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5) 6) 7)	Claim(s) 1-37 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 1-37 are subject to restriction and/or	awn from consideration.				
Applicati	on Papers					
· ·	9) The specification is objected to by the Examiner.					
10) 🗌	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority u	inder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment	:(s)		•			
	e of References Cited (PTO-892)	4) Interview Summa				
3) 🔲 Infom	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date	Paper No(s)/Mail 5) Notice of Informal 6) Other:	Date Patent Application (PTO-152)			

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-11 and 25-37, are drawn to "fuse structure" and to "method of blowing a fuse", classified in class 337.
 - II. Claims 12-16, are drawn to "a bus", classified in class 361, subclass 626.
 - III. Claim17-24, are drawn to "a circuit", classified in class 361, subclass 104.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions III and I or II, are related as combination (III) and subcombinations (I or II). Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed (a circuit) does not require the particulars of the subcombinations as claimed, at least in part, because: claims 17-24 directed to "a circuit" do not recite, for example "a first region", "a second region" and "a point of localized heating" as required for subcombination I (fuse structure) and that "first segments have a length sufficient for thermally insulating said second segment from said circuit elements" as required for subcombination II (a bus). The subcombination I has separate utility such as a fuse and may be

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employed in different types of circuits and devices, and subcombination II has a separate utility as a bus and may be employed with different types of fuses and in different types of circuits.

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- 3. Inventions I (fuse structure) and II (bus) are related as subcombinations disclosed as usable together in a single combination (circuit). The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention I has separate utility such as a fuse which may be employed in different types of circuits or devices, and invention II has a separate utility as a bus which may be used with different types of fuses in and in different types of circuits (see paragraph 2). See MPEP § 806.05(d).
- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II or III, restriction for examination purposes as indicated is proper.

5. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anatoly Vortman whose telephone number is 571-272-2047. The examiner can normally be reached on Monday-Friday, between 10:00 am and 6:30 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ms. Lynn Feild can be reached on 571-272-2092. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Anatoly Vortman Primary Examiner Art Unit 2835

AV A. Val